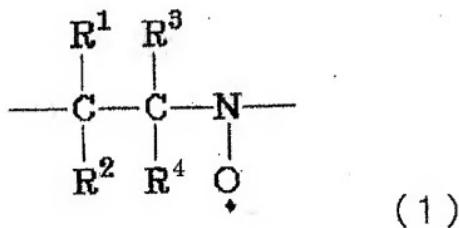


**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application:

**LISTING OF CLAIMS:**

1. (currently amended): A secondary battery having comprising at least a positive electrode, a negative electrode, and an electrolyte, wherein the secondary battery includes a polymer having a repeating unit represented by formula (1) as an active material of at least one of the positive electrode and the negative electrode comprises a polymer having a repeating unit represented by formula (1) as an active material.



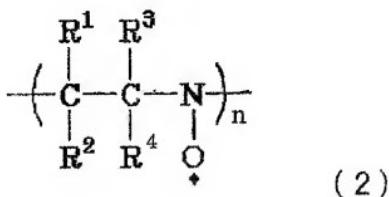
According to formula (1), wherein R1, R2, R3 and R4 each independently represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aromatic hydrocarbons, a substituted or unsubstituted heteroaromatic groups, a halogen atom, or an alkylene group that may be coupled to the ring form at least one or both of R1 and R3, and R2

and R4, to form a ring.

2. (currently amended): The secondary battery according to claim 1  
~~containscontaining~~ the polymer as a positive electrode active material.

3. (original): The secondary battery according to claim 1, wherein the secondary battery  
is a lithium secondary battery.

4. (currently amended): A secondary battery having comprising at least a positive  
electrode, a negative electrode, and an electrolyte, wherein ~~the secondary battery includes a~~  
~~polymer represented by formula (2) as an active material of~~ at least one of the positive electrode  
and the negative electrode comprises a polymer represented by formula (2) as an active material;



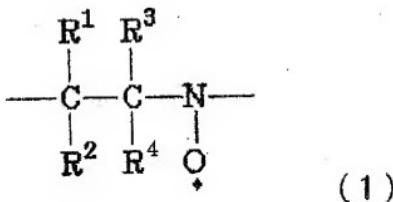
According to formula (1), wherein R1, R2, R3 and R4 each independently represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aromatic hydrocarbons, a substituted or unsubstituted heteroaromatic groups, a halogen atom, or an alkylene group that may be coupled to the ring form at least one or both of R1 and R3, and R2 and R4, to form a ring, and

wherein n represents a positive integer.

5. (original): The secondary battery according to claim 4 containing the polymer as a positive electrode active material.

6. (original): The secondary battery according to claim 4, wherein the secondary battery is a lithium secondary battery.

7. (currently amended): A secondary battery containing comprising at least a positive electrode and a negative electrode, wherein a polymer having a repeating unit represented by formula (1) is a reactant or product of at least one of an electrode reaction of at least a positive electrode and a negative electrode, wherein the polymer has a repeating unit represented by formula (1):

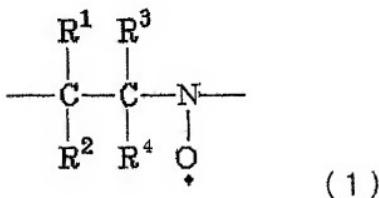


According to formula (1), and wherein R1, R2, R3 and R4 each independently represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aromatic hydrocarbons, a substituted or unsubstituted heteroaromatic groups, a halogen atom, or an alkylene group that may be coupled to the ring form at least one of or both of R1 and R3, and R2 and R4, to form a ring.

8. (original): The secondary battery according to claim 7 containing the polymer as a reactant or product of the positive electrode reaction.

9. (original): The secondary battery according to claim 7, wherein the secondary battery is a lithium secondary battery.

**10. (currently amended):** A secondary battery ~~of~~comprises at least a positive electrode and a negative electrode, wherein at least one ~~of~~electrode reaction of a positive electrode and negative electrode ~~containing~~contains a chemical compound obtained by forming a polymer having a repeating unit represented by formula (1):



According to formula (1), wherein R1, R2, R3 and R4 each independently represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aromatic hydrocarbons, a substituted or unsubstituted heteroaromatic groups, a halogen atom, or an alkylene group that may be coupled to the ring-form at least one or both of R1 and R3, and R2 and R4, to form a ring.

**11. (original):** The secondary battery according to claim 10, wherein the chemical compound is contained in the positive electrode.

**12. (original):** The secondary battery according to claim 10, wherein the secondary battery is a lithium secondary battery.